

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site:	Berry Hill	City/County:	Pittsylvania County	Date:	5/16/2012
Applicant/Owner:	RIFA	State:	VA	Sampling Point:	DP-FF/FG
Investigator(s):	Dewberry: B. Bill / T. Shelton	Section, Township, Range:			
Landform (hillslope, terrace, etc.):	sideslope/flat	Local relief (concave, convex, none):	concave	Slope (%):	2-5
Subregion (LRR or MLRA):	LRRP, MLRA 136	Lat:	36.563009	Long:	-79.597322
Soil Map Unit Name:	[23B] Mayodan fine sandy loam, 2-7% slopes	NWI Classification:	PSS		

Are climate/hydrologic conditions on the site typical for this time of the year? Yes X No (If no, explain in **Remarks**)

Are vegetation X, soil , or hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X

Are vegetation , soil , or hydrology naturally problematic? (If needed, explain any answers in **Remarks**.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc

Hydrophytic Vegetation present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Remarks:
Wetland area logged around PSS, wetland is within PSS and encroaches beyond into logged area.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<u> </u> Surface Water (A1)	<u> </u> True Aquatic Plants (B14)
<u>X</u> High Water Table (A2)	<u> </u> Surface Soil Cracks (B6)
<u>X</u> Saturation (A3)	<u> </u> Sparsely Vegetated Concave Surface (B8)
<u> </u> Water Marks (B1)	<u> </u> Drainage Patterns (B10)
<u> </u> Sediment Deposits (B2)	<u> </u> Moss Trim Lines (B16)
<u> </u> Drift Deposits (B3)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Crayfish Burrows (C8)
<u> </u> Iron Deposits (B5)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Water-Stained Leaves (B9)	<u> </u> Geomorphic Position (D2)
<u> </u> Aquatic Fauna (B13)	<u> </u> Shallow Aquitard (D3)
	<u> </u> Microtopographic Relief (D4)
	<u> </u> FAC-Neutral Test (D5)

Field Observations:				Wetland Hydrology Present?
Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (Inches): <u> </u>	
Water Table Present?	Yes <u>X</u>	No <u> </u>	Depth (Inches): <u>-11bgs</u>	
Saturation Present?	Yes <u>X</u>	No <u> </u>	Depth (Inches): <u>-6bgs</u>	
				Yes <u>X</u> No <u> </u>

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

 Sampling Point: DP-FF/FG

Tree Stratum (Plot Size: <u>30'</u>)				Dominance Test Worksheet:																													
1		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species that Are OBL, FACW, or FAC: <u>4</u> (A)																												
2			N		Total Number of Dominant Species Across All Strata: <u>4</u> (B)																												
3			N																														
4			N																														
5			N																														
6			N																														
7			N		Percent of Dominant Species that are OBL, FACW, or FAC: <u>100%</u> (A/B)																												
		0	=Total Cover		Prevalence Index Worksheet: Total % Cover of: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">OBL Species</td> <td style="width: 10%; text-align: center;">20</td> <td style="width: 10%; text-align: center;">x1=</td> <td style="width: 47%; text-align: center;">20</td> </tr> <tr> <td>FACW Species</td> <td style="text-align: center;">15</td> <td style="text-align: center;">x2=</td> <td style="text-align: center;">30</td> </tr> <tr> <td>FAC Species</td> <td style="text-align: center;">50</td> <td style="text-align: center;">x3=</td> <td style="text-align: center;">150</td> </tr> <tr> <td>FACU Species</td> <td style="text-align: center;">5</td> <td style="text-align: center;">x4=</td> <td style="text-align: center;">20</td> </tr> <tr> <td>UPL Species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x5=</td> <td style="text-align: center;">0</td> </tr> <tr> <td colspan="4" style="padding-top: 10px;"> Column Totals: <u>90</u> (A) <u>220</u> (B) </td> </tr> <tr> <td colspan="4" style="text-align: center; padding-top: 10px;"> Prevalence Index = B/A = <u>2.44</u> </td> </tr> </table>	OBL Species	20	x1=	20	FACW Species	15	x2=	30	FAC Species	50	x3=	150	FACU Species	5	x4=	20	UPL Species	0	x5=	0	Column Totals: <u>90</u> (A) <u>220</u> (B)				Prevalence Index = B/A = <u>2.44</u>			
OBL Species	20	x1=	20																														
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FAC Species	50	x3=	150																														
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Column Totals: <u>90</u> (A) <u>220</u> (B)																																	
Prevalence Index = B/A = <u>2.44</u>																																	
Sapling Stratum (Plot Size: <u> </u>)																																	
1			N		Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
2			N																														
3			N																														
4			N																														
5			N																														
6			N		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																												
7			N																														
		0	=Total Cover																														
Shrub Stratum (Plot Size: <u> </u>)																																	
1	<i>Liquidambar styraciflua</i>	25	Y	FAC		Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1m) in height.																											
2	<i>Acer rubrum</i>	20	Y	FAC																													
3			N																														
4			N																														
5			N																														
6			N		<input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																												
7			N																														
		45	=Total Cover																														
Herb Stratum (Plot Size: <u>5'</u>)																																	
1	<i>Scirpus atrovirens</i>	15	Y	OBL		Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																											
2	<i>Juncus effusus</i>	15	Y	FACW																													
3	<i>Liquidambar styraciflua</i>	5	N	FAC																													
4	<i>Carex vulpinoidea</i>	5	N	OBL																													
5	<i>Toxicodendron pubescens Mill.</i>	5	N	FACU																													
6			N		Remarks: (If observed, list morphological adaptations below.)																												
7			N																														
8			N																														
9			N																														
10			N																														
11			N		Woody Vine Stratum (Plot Size: <u> </u>)																												
12			N																														
		45	=Total Cover																														
Woody Vine Stratum (Plot Size: <u> </u>)																																	
1			N																														
2			N		Remarks: (If observed, list morphological adaptations below.)																												
3			N																														
4			N																														
5			N																														
		0	=Total Cover																														

SOIL

Sampling Point: _____

DP-FF/FG

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (Moist)	%	Type ¹	Loc ²		
0-4	10YR5/6	50	10YR5/8	50	C	M	ClayLoam	
4-11	2.5Y5/2	80	10YR5/6	20	C	M	ClayLoam	
11-12	10YR5/4	100					ClayLoam	wet, saturated

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Dark Surface (S7)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 2 cm Muck (A10) (LRR N)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)
<input type="checkbox"/> Stripped Matrix (S6)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)
<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147, 148)
<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)
<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed:)

Type: _____
Depth (inches:) _____Hydric Soil
Present?Yes ☒ XNo ☐

Remarks: